

## AMENDMENTS TO THE CLAIMS

### **Patent Claims**

#### We claim:

1. (Currently amended) Method for reprocessing used PET bottles, comprising the steps:
  - a) shredding (101, 201) the bottles to yield plastic flakes,
  - b) sorting the plastic flakes (103, 104) according to at least one criterion into at least two partial quantities, and
  - c) and performing an industrial reprocessing treatment ~~optionally including decontamination treatment.~~
2. (Currently amended) Method according to Claim 1, ~~whereby~~ wherein the plastic flakes in step b) are sorted according to one of a difference in size, a and/or difference in thickness, a and/or difference in weight, a and/or difference in density, a and/or difference in crystallinity, and a combination of one or more thereof.
3. (Currently amended) Method according to Claim 1 ~~or 2, whereby~~ wherein the flakes are sorted in such a way that a first partial quantity consists of at least approximately 95%, ~~especially at least 98%~~, plastic flakes of thick-walled parts of the beverage container, ~~especially the bottle head~~, and a second partial quantity consists of at least approximately 95% 75%, ~~especially at least 98%~~ plastic flakes of thin-walled parts of the beverage container.
4. (Currently amended) Method according to ~~any one of Claims 1 through Claim 3, whereby~~ and reshredding the first partial quantity is ~~reshredded~~ in process step c) in another shredding step (104).
5. (Currently amended) Method according to Claim 4, ~~whereby~~ and combining again the first partial quantity and the second partial quantity ~~are combined again~~ after the reshredding step (104) ~~for reshredding of the first partial quantity~~, and then jointly decontaminating the combined quantities ~~are decontaminated jointly~~.

6. (Currently amended) Method according to ~~any one of Claims Claim 1 through 5, whereby and using~~ a pneumatic table (303) is used in the sorting step b).

7. (Currently amended) Method according to ~~any one of Claims Claim 1 through 5, whereby, wherein~~ the sorting step b) includes a density separation as a function of crystallinity in a liquid medium.

8. (Original) Device for reprocessing used PET bottles, comprising a shredding system (300) for shredding the plastic containers to yield plastic flakes, a sorting system (303) for sorting the plastic flakes according to at least one criterion into at least two partial quantities, and a decontamination system (309, 310) for decontaminating the plastic flakes.

9. (Currently amended) Device according to Claim 8, ~~characterized in that wherein~~ the sorting system comprises a pneumatic table (303).

10. (Currently amended) Device according to Claim 9, ~~characterized in that wherein~~ the sorting system comprises a screen device.

11. (New) Method according to Claim 1, wherein the step of performing an industrial reprocessing treatment includes a decontamination treatment.

12. (New) Method according to Claim 3, wherein the first partial quantity consists of at least approximately 98% plastic flakes of thick-walled parts of the beverage container.

13. (New) Method according to Claim 3, wherein the second partial quantity consists of at least approximately 98% plastic flakes of thin-walled parts of the beverage container.